Express Mail No. EV 338362387 US
Title: Obtaining and Maintaining TTR
Synchrönization During DSL
TRANSCEIVER CHANNEL DISCOVERY PHASE IN PRESENCE OF TCM-ISDN NOISE

Inventors: Guozhu Long *et al.*Atty. Docket No.: 21676-07332
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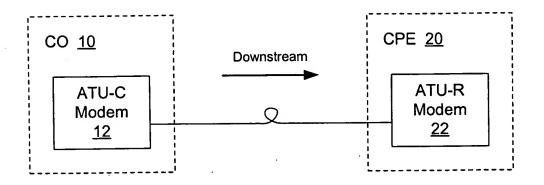


Fig. 1

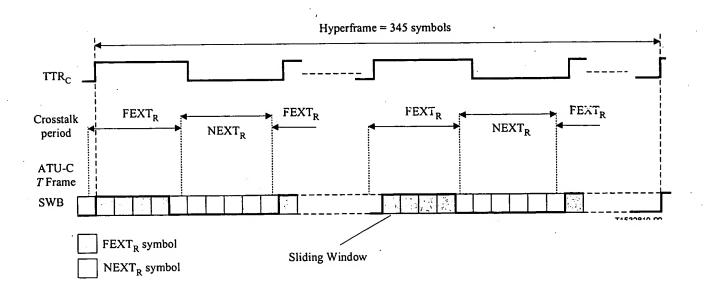
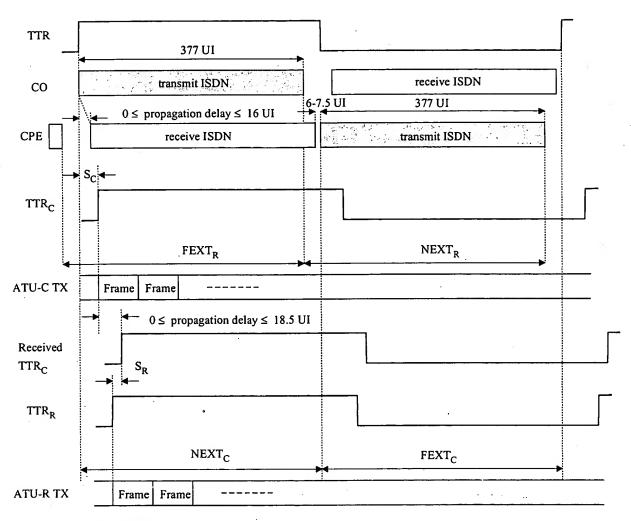


Fig. 3

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 $1 \text{ UI} = 3.125 \ \mu \text{s}$ 

 $\ensuremath{\mathsf{FEXT}}_{\ensuremath{\mathsf{R}}}$  and  $\ensuremath{\mathsf{NEXT}}_{\ensuremath{\mathsf{R}}}$  are estimated by ATU-C

 $\ensuremath{\mathsf{FEXT}}_{\ensuremath{\mathbf{C}}}$  and  $\ensuremath{\mathsf{NEXT}}_{\ensuremath{\mathbf{C}}}$  are estimated by ATU-R

TTR

TCM-ISDN timing reference

 $TTR_C$ 

Timing reference used in ATU-C

Received TTR<sub>C</sub>

Received TTR<sub>C</sub> at ATU-R

 $TTR_R$ 

Timing reference used in ATU-R

 $S_C$ 

 $55 \times 0.9058 \,\mu s$ : Offset from TTR to TTR<sub>C</sub>

 $S_R$ 

 $-42 \times 0.9058$  µs: Offset from received TTR<sub>C</sub> to TTR<sub>R</sub>

Fig. 2

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$TTR_C$			
	0	0 4 5 6 7 8	9 10
	1		20 21
	2		31
	3	32 33 34 35 36 37 38 39 40 4	11 42
	4	43 44 45 46 47 48 49 50 51	52 53
	5	5 54 55 6 57 58 59 60 61 62	63 64
	6	65 65 66 67 68 69 70 71 72 73	74
	7	7 75 76 777 78 79 80 81 82 83 84	4 85
	8	THE CONTRACT OF THE PARTY OF TH	95 96
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	12	Electronic Microscope English Parallel	38   139
	13	By Section Section and Section	149 150
	14	Additional of the state of the	160 16E
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	16	STATE OF THE PART	1 182
	17	1987 William Control of Programmer	203 204
	18	SECTION AND THE SECTION OF SECTION AND ADDRESS OF THE SECTION ADDRESS OF THE SE	214 215
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	22	Description of the second of the second of the second	246 247
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	25	Land Control C	8 279
	26		289 290
	27	7 291 292 293 294 295 296 297 298 299	300 301
	28	8 302 303 304 305 306 307 308 309 310	311 312
	29	9 313 314 315 316 317 318 319 320 321	322
	30	23 A. 4450A. 1 - 4 A - 5 F. G. 1600 A April 1965 1965 196	32 333
•	31	1 334 335 336 337 338 339 340 341 342	343 344
	•	FEXT <sub>R</sub> symbol	•
		NEXT <sub>R</sub> symbol	

Fig. 4

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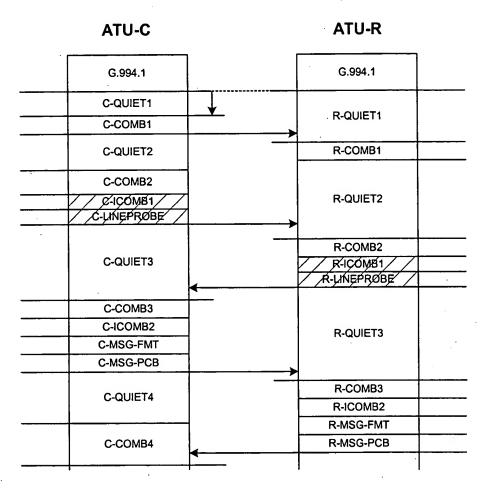


Fig. 5

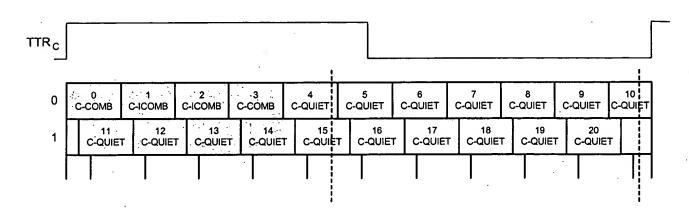


Fig. 6

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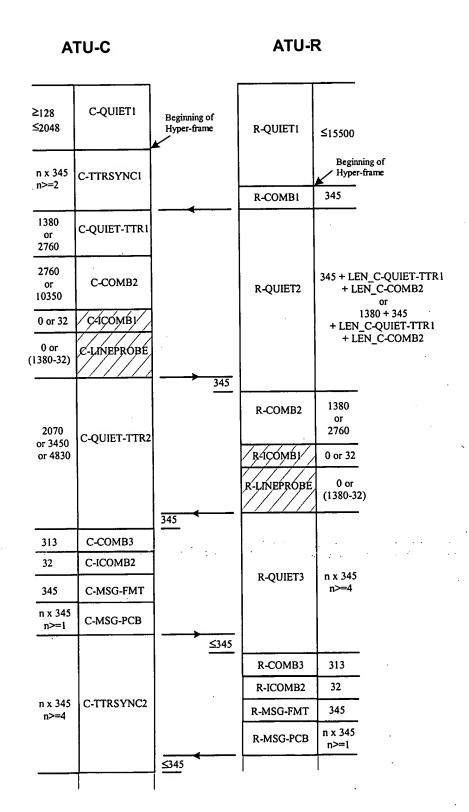


Fig. 7